

CLEAR STORAGE 1 ,008015,022026,030037,044,049,053053N000000N00001026 1  
CLEAR STORAGE 2 L068116,105106,110117B101/I9I#071029C029056B026/B001/0991,001/001117I0? 2  
BOOTSTRAP ,008015,022029,036040,047054,061068,072/061039 ,0010011040 3

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	01	000	JOB	1401 AUTOCODER-PASS 8 LOAD TAPE-RIGHT MAIN-VERSION 3						
102	1	02		CTL	630 1						
103	1	03		*							
104	1	04		*	EQUATES USED BY PROGRAM						
105	1	05		*							
106	1	06	INITAP	EQU	8U0			8U0			
107	1	07	INTAPE	EQU	8U5			8U5			
108	1	08	OUTAPE	EQU	8U6			8U6			
109	1	09	PUNCH	EQU	100			0100			
110	1	10	OUTPUT	EQU	PUNCH&1			0101			
111	1	11	IMAGE	EQU	0			0000			
112	1	12	XXXX	EQU	0			0000			
113	1	13	COUNT	EQU	IMAGE&7			0007			
114	1	14	LABADD	EQU	IMAGE&61			0061			
115	1	15	SUPADD	EQU	IMAGE&66			0066			
116	1	16	AGP	EQU	IMAGE&70			0070			
117	1	17	BOP	EQU	IMAGE&73			0073			
118	1	18	DMOD	EQU	IMAGE&74			0074			
119	1	19	TYPE	EQU	IMAGE&75			0075			
120	1	20	PRINT	EQU	200			0200			
121	1	21	LIBRN	EQU	0			0000			
122	1	22	ORG		87				0087		
123	1	23	XR1	DCW	000	3	0089				4
124	1	24		DC	00	2	0091				4
125	1	25	XR2	DCW	000	3	0094				4
126	1	26		DC	00	2	0096				4
127	1	27	XR3	DCW	000	3	0099				4
128	1	28		DC	00	2	0101				4
129	1	29		*							
130	1	30		*	INITIALIZATION ROUTINE						
131	1	31		*							
132	1	32		ORG	336				0336		
133	1	33	ZONE	DCW	@2SKB@	4	0339				5
134	1	34	INITLZ	RWD	OUTAPE	5	0340	U 8U6 R			5
135	1	35		C	OUTOPN,@2@	7	0345	C 100 P07			5
136	1	36		BH	ENDJOB	5	0352	B 155 U			5
137	1	37		C	OUTOPN,@7@	7	0357	C 100 P08			5
138	1	38		BL	ENDJOB	5	0364	B 155 T			5
139	1	39		RWD	4	5	0369	U 8U4 R			5
140	1	40		RWD	INTAPE	5	0374	U 8U5 R			6
141	1	41		CW	LTAPSW,PNH4SW	7	0379	) P25 P26			6
142	1	42		MCW	SSOP,TSTSS	7	0386	M 101 475			6
143	1	43		*							
144	1	44		*	TEST FOR CTL CARD						
145	1	45		*							
146	1	46	READ4	MCW	@013@,LGTC&6	7	0393	M P11 058			6
147	1	47		RT	4,1	8	0400	M 8U4 001 R			6

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	1	48		B	CHKLGT	4	0408	B 037			6
149	1	49		BER	TPERR	5	0412	B M33 L			7
150	1	50		C	18,@JOB@	7	0417	C 018 P14			7
151	1	51		BU	CKCTL	5	0424	B 444 /			7
152	1	52		MCW	79,IDENT#4	7	0429	M 079 P18			7
153	1	53		CW	JOBSW#1	4	0436	) P19			7
154	1	54		B	READ4	4	0440	B 393			7
155	1	55	CKCTL	C	18,@CTL@	7	0444	C 018 P22			7
156	1	56		MCW	OUTOPN,23	7	0451	M 100 023			8
157	1	57		RWD	4	5	0458	U 8U4 R			8
158	1	58		BE	TSTSS	5	0463	B 475 S			8
159	1	59		LCA	@33@,22	7	0468	L P24 022			8
160	1	60		BSS	SENSW,F	5	0475	B 528 F			8
161	1	61	TSTSS	BCE	LTAPOP,23,2	8	0480	B 591 023 2			8
162	1	62	TSTOP	BCE	LTAPOP,23,3	8	0488	B 591 023 3			9
163	1	63		BCE	LTAPOP,23,6	8	0496	B 591 023 6			9
164	1	64		BCE	LTAPOP,23,7	8	0504	B 591 023 7			9
165	1	65		SW	LTAPSW#1	4	0512	, P25			9
166	1	66		B	START	4	0516	B '17			9
167	1	67		*							
168	1	68		*	OPTION TO PUNCH NEW SOURCE DECK						
169	1	69		*							
170	1	70	PNH4OP	SW	PNH4SW#1	4	0520	, P26			9
171	1	71		B	TSTLSW	4	0524	B '49			10
172	1	72		*							
173	1	73		*	TEST SENSE SWITCHES FOR OPTION						
174	1	74		*							
175	1	75	SENSW	LCA	@0@,23	7	0528	L P27 023			10
176	1	76		BSS	ADD1,B	5	0535	B 558 B			10
177	1	77	TSTSSC	BSS	ADD2,C	5	0540	B 569 C			10
178	1	78	TSTSSG	BSS	ADD4,G	5	0545	B 580 G			10
179	1	79	SSOUT	CW	23	4	0550	) 023			10
180	1	80		B	TSTOP	4	0554	B 480			10
181	1	81	ADD1	A	@1@,23	7	0558	A P28 023			11
182	1	82		B	TSTSSC	4	0565	B 540			11
183	1	83	ADD2	A	@2@,23	7	0569	A P07 023			11
184	1	84		B	TSTSSG	4	0576	B 545			11
185	1	85	ADD4	A	@4@,23	7	0580	A P29 023			11
186	1	86		B	SSOUT	4	0587	B 550			11
187	1	87		*							
188	1	88		*	SET UP CLEAR STORAGE RECORD						
189	1	89		*							
190	1	90	LTAPOP	CS	PUNCH&80	4	0591	/ 180			11
191	1	91		SW	GRPMRK	4	0595	, P06			12
192	1	92		LCA	GRPMRK,PUNCH&99	7	0599	L P06 199			12
193	1	93		LCA	IDENT,PUNCH&79	7	0606	L P18 179			12
194	1	94		LCA	@ @	4	0613	L P31			12
195	1	95		LCA	@B007@	4	0617	L P35			12
196	1	96		LCA	@021@	4	0621	L P39			12
197	1	97		LCA	@B047L@	4	0625	L P44			12

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	1	98	LCA		@L&U1001R@	4		0629	L P52		13
199	1	99	LCA		@. @	4		0633	L P53		13
200	2	00	LCA		BSPTU1	4		0637	L O93		13
201	2	01	*								
202	2	02	*		TEST OBJECT CORE SIZE						
203	2	03	*								
204	2	04	C		22,@3@	7		0641	C O22 P54		13
205	2	05	BE		IS4K	5		0648	B 747 S		13
206	2	06	BH		IS4K	5		0653	B 747 U		13
207	2	07	C		22,@6@	7		0658	C O22 P55		13
208	2	08	BL		IS4K	5		0665	B 747 T		14
209	2	09	LCA		@I0?@,PUNCH&44	7		0670	L P58 144		14
210	2	10	LCA		@09@	4		0677	L P61		14
211	2	11	LCA		@B053@	4		0681	L P65		14
212	2	12	LCA		@M074099@	4		0685	L P72		14
213	2	13	LCA		@)099@	4		0689	L P76		14
214	2	14	LCA		@B001/@	4		0693	L P81		14
215	2	15	LCA		@C004041@	4		0697	L P88		15
216	2	16	LCA		@H044004@	4		0701	L P95		15
217	2	17	LCA		@/I9I@	4		0705	L P99		15
218	2	18	BCE		BTSTRP,22,6	8		0709	B 842 022 6		15
219	2	19	BCE		IS12K,22,5	8		0717	B 736 022 5		15
220	2	20	MZ		ZONE-2,PUNCH&4	7		0725	Y 337 104		15
221	2	21	B		BTSTRP	4		0732	B 842		15
222	2	22	IS12K MZ		ZONE-1,PUNCH&4	7		0736	Y 338 104		16
223	2	23	B		BTSTRP	4		0743	B 842		16
224	2	24	IS4K LCA		@I0@,PUNCH&75	7		0747	L Q01 175		16
225	2	25	LCA		@B053@,PUNCH&46	7		0754	L P65 146		16
226	2	26	LCA		@M080099@	4		0761	L Q08		16
227	2	27	LCA		@)099@	4		0765	L P76		16
228	2	28	LCA		@B001@	4		0769	L Q12		16
229	2	29	LCA		@B0320020@	4		0773	L Q20		17
230	2	30	LCA		@)002@	4		0777	L Q24		17
231	2	31	LCA		@A075003@	4		0781	L Q31		17
232	2	32	LCA		@,002@	4		0785	L Q35		17
233	2	33	LCA		@/I99@	4		0789	L Q39		17
234	2	34	SW		PUNCH&80	4		0793	, 180		17
235	2	35	BCE		BTSTRP,22,3	8		0797	B 842 022 3		17
236	2	36	MCW		@Z@,PUNCH&2	7		0805	M Q40 102		18
237	2	37	BCE		BTSTRP,22,2	8		0812	B 842 022 2		18
238	2	38	MCW		@T@,PUNCH&2	7		0820	M Q41 102		18
239	2	39	BCE		BTSTRP,22,1	8		0827	B 842 022 1		18
240	2	40	MCW		@I@,PUNCH&2	7		0835	M Q42 102		18
241	2	41	*								
242	2	42	*		SET UP BOOTSTRAP PROGRAM						
243	2	43	*								
244	2	44	BTSTRP B		WRITE1	4		0842	B 130		19
245	2	45	CW		PUNCH&99	4		0846	1199		19
246	2	46	LCA		GRPMRK,PUNCH&80	7		0850	L P06 180		19
247	2	47	LCA		@ @,PUNCH&24	7		0857	L Q43 124		19

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	2	48	LCA		@.020@	4		0864	L Q47		19
249	2	49	LCA		BER1	4		0868	L O80		19
250	2	50	LCA		RDREC	4		0872	L O88		19
251	2	51	LCA		@. @	4		0876	L P53		20
252	2	52	LCA		BSPTU1	4		0880	L O93		20
253	2	53	B		WRITE1	4		0884	B 130		20
254	2	54	CS		PUNCH&75	4		0888	/ 175		20
255	2	55	LCA		@ @,PUNCH&35	7		0892	L Q43 135		20
256	2	56	LCA		@B007@	4		0899	L P35		20
257	2	57	LCA		@N000@	4		0903	L Q51		20
258	2	58	LCA		@L @	4		0907	L Q58		21
259	2	59	LCA		BER1	4		0911	L O80		21
260	2	60	LCA		RDREC	4		0915	L O88		21
261	2	61	LCA		@. @	4		0919	L P53		21
262	2	62	LCA		BSPTU1	4		0923	L O93		21
263	2	63	*								
264	2	64	*		TEST PROCESSOR CORE SIZE						
265	2	65	*								
266	2	66	C		21,@3@	7		0927	C O21 P54		21
267	2	67	BE		START	5		0934	B '17 S		21
268	2	68	BH		START	5		0939	B '17 U		22
269	2	69	C		21,@6@	7		0944	C O21 P55		22
270	2	70	BL		START	5		0951	B '17 T		22
271	2	71	MN		21,SAVEZN#1	7		0956	D O21 Q59		22
272	2	72	A		&3,SAVEZN	7		0963	A Q60 Q59		22
273	2	73	MN		SAVEZN,*&4	7		0970	D Q59 980		22
274	2	74	MZ		ZONE,*&7	7		0977	Y 339 990		23
275	2	75	LCA		GRPMRK,GRPMRK	7		0984	L P06 P06		23
276	2	76	CW		GRPMRK	4		0991	) P06		23
277	2	77	MCW		@400@,KBLKNG	7		0995	M Q63 P01		23
278	2	78	BCE		START,21,4	8		1002	B '17 021 4		23
279	2	79	A		@400@,KBLKNG	7		1010	A Q63 P01		24
280	2	80	*								
281	2	81	*		SET PARAMETERS						
282	2	82	*								
283	2	83	START BCE		PNH4OP,23,4	8		1017	B 520 023 4		24
284	2	84	BCE		PNH4OP,23,5	8		1025	B 520 023 5		24
285	2	85	BCE		PNH4OP,23,6	8		1033	B 520 023 6		24
286	2	86	BCE		PNH4OP,23,7	8		1041	B 520 023 7		24
287	2	87	TSILSW BW		EOJOB,LTAPSW	8		1049	V X#1 P25 1		25
288	2	88	MCW		KBLKNG,BLKCT	7		1057	M P01 P04		25
289	2	89	CS		80	4		1064	/ 080		25
290	2	90	BW		SETINP,JOBSW	8		1068	V '84 P19 1		25
291	2	91	RT		INTAPE,INPUI	8		1076	M #U5 ?28 R		25
292	2	92	SETINP SW		IMAGE&23,IMAGE&57	7		1084	, 023 057		26
293	2	93	SW		IMAGE&62,IMAGE&67	7		1091	, 062 067		26
294	2	94	SW		IMAGE&68,IMAGE&71	7		1098	, 068 071		26
295	2	95	SW		IMAGE&74,IMAGE&6	7		1105	, 074 006		26
296	2	96	SW		IMAGE&1	4		1112	, 001		26
297	2	97	B		GET	4		1116	B 176		26

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	2	98	*								
299	2	99	*	ANALYZE	RECORD TYPE						
300	3	00	*								
301	3	01	ANALYZ	BCE	BYPASS,TYPE,%	8		1120	B J59 075 %		27
302	3	02		BM	BYPASS,IMAGE&5	8		1128	V J59 005 K		27
303	3	03		BCE	INSTR,TYPE,	8		1136	B S22 075		27
304	3	04		BCE	DOJOB,TYPE,I	8		1144	B S11 075 I		27
305	3	05		MN	TYPE,XR2	7		1152	D 075 094		27
306	3	06		A	XR2	4		1159	A 094		28
307	3	07		A	XR2	4		1163	A 094		28
308	3	08		B	*%L&X2	4		1167	B /P1		28
309	3	09		B	DA	4		1171	B V85		28
310	3	10		B	CONST	4		1175	B S65		28
311	3	11		B	DSA	4		1179	B V59		28
312	3	12		B	EXEND	4		1183	B W82		28
313	3	13		B	BYPASS	4		1187	B J59		29
314	3	14		B	BYPASS	4		1191	B J59		29
315	3	15		B	BYPASS	4		1195	B J59		29
316	3	16		B	BYPASS	4		1199	B J59		29
317	3	17		B	XTRA	4		1203	B V34		29
318	3	18		B	BYPASS	4		1207	B J59		29
319	3	19	DOJOB	MCW	IMAGE&20,PUNCH&79	7		1211	M 020 179		29
320	3	20		B	BYPASS	4		1218	B J59		30
321	3	21	*								
322	3	22	*	PROCESS	INSTRUCTIONS						
323	3	23	*								
324	3	24	INSTR	MCW	DMOD,PUNCH&42	7		1222	M 074 142		30
325	3	25		MCW		1		1229	M		30
326	3	26		MCW		1		1230	M		30
327	3	27		MCW		1		1231	M		30
328	3	28		MCW	LABADD,CNVADD	7		1232	M 061 ?01		30
329	3	29		A	COUNT,CNVADD	7		1239	A 007 ?01		30
330	3	30		S	@1@,CNVADD	7		1246	S P28 ?01		31
331	3	31	INSTXT	B	SETLOC	4		1253	B J67		31
332	3	32		B	WRITE2	4		1257	B K64		31
333	3	33		B	BYPASS	4		1261	B J59		31
334	3	34	*								
335	3	35	*	PROCESS	CONSTANTS						
336	3	36	*								
337	3	37	CONST	A	@00@,COUNT	7		1265	A Q65 007		31
338	3	38		C	COUNT,@00@	7		1272	C 007 Q65		31
339	3	39		BL	*%5	5		1279	B S88 T		31
340	3	40		B	BYPASS	4		1284	B J59		32
341	3	41		BCE	PCHCON,IMAGE&23,#	8		1288	B T44 023 #		32
342	3	42		BWZ	PCHCON,IMAGE&4,B	8		1296	V T44 004 B		32
343	3	43		MCW	IMAGE&53,HOLDT-22	7		1304	M 053 R26		32
344	3	44		BCE	ALPHA,IMAGE&23,@	8		1311	B T23 023 @		32
345	3	45		B	PCHCON	4		1319	B T44		32
346	3	46	ALPHA	MCW	&HOLDT-51,XR1	7		1323	M Q68 089		33
347	3	47		A	COUNT,XR1	7		1330	A 007 089		33

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	3	48		MCW	BLANK1#1,XXXX&X1	7		1337	M Q69 0'0		33
349	3	49	PCHCON	MCW	HOLDT-20,PUNCH&66	7		1344	M R28 166		33
350	3	50		MCW	LABADD,CNVADD	7		1351	M 061 ?01		33
351	3	51		C	COUNT,@32@	7		1358	C 007 Q71		34
352	3	52		BL	LARGE	5		1365	B T82 T		34
353	3	53		BCE	PRODC,TYPE,A	8		1370	B U47 075 A		34
354	3	54		B	INSTXT	4		1378	B S53		34
355	3	55	*								
356	3	56	*	CONSTANTS	LARGER THAN 32 CHARACTERS						
357	3	57	*								
358	3	58	LARGE	S	@32@,COUNT	7		1382	S Q71 007		34
359	3	59		S	COUNT,CNVADD	7		1389	S 007 ?01		34
360	3	60		MCW	COUNT,HOLDCT#2	7		1396	M 007 Q73		35
361	3	61		MCW	@32@,COUNT	7		1403	M Q71 007		35
362	3	62		B	SETLOC	4		1410	B J67		35
363	3	63		BCE	LRGDC,TYPE,A	8		1414	B U94 075 A		35
364	3	64	LRGXT	MCW	HOLDCT,COUNT	7		1422	M Q73 007		35
365	3	65		MCW	HOLDT,TEMP#20	7		1429	M R48 Q93		36
366	3	66		B	WRITE2	4		1436	B K64		36
367	3	67		MCW	TEMP,PUNCH&54	7		1440	M Q93 154		36
368	3	68	*								
369	3	69	*	PROCESS	DC						
370	3	70	*								
371	3	71	PRODC	MCW	LABADD,CNVADD	7		1447	M 061 ?01		36
372	3	72		S	COUNT,CNVADD	7		1454	S 007 ?01		36
373	3	73		A	@1@,CNVADD	7		1461	A P28 ?01		36
374	3	74		B	CNVRT	4		1468	B K11		37
375	3	75		MCW	CNVWK,PUNCH&30	7		1472	M ?04 130		37
376	3	76		MCW	@)@	4		1479	M Q94		37
377	3	77		MCW	LABADD,CNVADD	7		1483	M 061 ?01		37
378	3	78		B	INSTXT	4		1490	B S53		37
379	3	79	*								
380	3	80	*	DC	GREATER THAN 32 CHARACTERS						
381	3	81	*								
382	3	82	LRGDC	MCW	LABADD,CNVADD	7		1494	M 061 ?01		37
383	3	83		S	HOLDCT,CNVADD	7		1501	S Q73 ?01		38
384	3	84		S	@31@,CNVADD	7		1508	S Q96 ?01		38
385	3	85		B	CNVRT	4		1515	B K11		38
386	3	86		MCW	CNVWK,PUNCH&30	7		1519	M ?04 130		38
387	3	87		MCW	@)@	4		1526	M Q94		38
388	3	88		B	LRGXT	4		1530	B U22		38
389	3	89	*								
390	3	90	*	EXTRA	CONSTANT FOR CONSTANT OVER 32 CHARACTERS						
391	3	91	*								
392	3	92	XTRA	BCE	BYPASS,IMAGE&21,	8		1534	B J59 021		39
393	3	93		MCW	IMAGE&73,HOLDT#52	7		1542	M 073 R48		39
394	3	94			CHAIN 6					MACRO	
395				MCW		1		1549	M	GEN	39
396				MCW		1		1550	M	GEN	39
397				MCW		1		1551	M	GEN	39

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398				MCW		1		1552	M	GEN	39
399				MCW		1		1553	M	GEN	39
400				MCW		1		1554	M	GEN	40
401	3	95		B	BYPASS	4		1555	B J59		40
402	3	96	*								
403	3	97	*		PROCESS DSA						
404	3	98	*								
405	3	99	DSA	MCW	BOP,PUNCH&37	7		1559	M 073 137		40
406	4	00		BCE	PRODC,TYPE,B	8		1566	B U47 075 B		40
407	4	01		MCW	LABADD,CNVADD	7		1574	M 061 ?01		40
408	4	02		B	INSTXT	4		1581	B S53		40
409	4	03	*								
410	4	04	*		PROCESS DEFINE AREA						
411	4	05	*								
412	4	06	DA	BCE	BYPASS,TYPE,I	8		1585	B J59 075 I		40
413	4	07		BCE	HEADER,TYPE,0	8		1593	B W24 075 0		41
414	4	08	*								
415	4	09	*		FIELD, FIELD REPEAT						
416	4	10	*								
417	4	11	FIELD	MCW	SUPADD,CNVADD	7		1601	M 066 ?01		41
418	4	12		B	DARTN	4		1608	B W47		41
419	4	13		BCE	FIELD,TYPE,'	8		1612	B W01 075 '		41
420	4	14		B	ANALYZ	4		1620	B /20		41
421	4	15	*								
422	4	16	*		HEADER, HEADER REPEAT						
423	4	17	*								
424	4	18	HEADER	MCW	LABADD,CNVADD	7		1624	M 061 ?01		41
425	4	19		B	DARTN	4		1631	B W47		42
426	4	20		BCE	HEADER,TYPE,'	8		1635	B W24 075 '		42
427	4	21		B	ANALYZ	4		1643	B /20		42
428	4	22	*								
429	4	23	*		DA SUBROUTINE						
430	4	24	*								
431	4	25	DARTN	SBR	DAXT&3	4		1647	H W81		42
432	4	26		B	CNVRT	4		1651	B K11		42
433	4	27		MCW	CNVWK,PUNCH&26	7		1655	M ?04 126		42
434	4	28		MCW	CNVWK	4		1662	M ?04		42
435	4	29		MCW	,@,@	4		1666	M R49		43
436	4	30		B	WRITE2	4		1670	B K64		43
437	4	31		B	GET	4		1674	B I76		43
438	4	32	DAXT	B	XXXX	4		1678	B 000		43
439	4	33	*								
440	4	34	*		PROCESS EX, END						
441	4	35	*								
442	4	36	EXEND	BCE	END,TYPE,3	8		1682	B X58 075 3		43
443	4	37		MCW	AOP,PUNCH&30	7		1690	M 070 130		43
444	4	38		MCW	@B@	4		1697	M R50		43
445	4	39		MCW	@N00000@	4		1701	M R57		44
446	4	40		B	WRITE2	4		1705	B K64		44
447	4	41		LCA	@ @,PUNCH&24	7		1709	L Q43 124		44

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	4	42		LCA	@B007@	4		1716	L P35		44
449	4	43		B	GET	4		1720	B I76		44
450	4	44		BCE	ISJOB,TYPE,I	8		1724	B X47 075 I		44
451	4	45	COMPAT	B	WRITE1	4		1732	B I30		44
452	4	46		LCA	@L @,PUNCH&26	7		1736	L R64 126		45
453	4	47		B	ANALYZ	4		1743	B /20		45
454	4	48	ISJOB	MCW	IMAGE&20,PUNCH&79	7		1747	M 020 179		45
455	4	49		B	COMPAT	4		1754	B X32		45
456	4	50	*								
457	4	51	*		END						
458	4	52	*								
459	4	53	END	MCW	@/ 080@,PUNCH&26	7		1758	M R71 126		45
460	4	54		MCW	AOP,PUNCH&23	7		1765	M 070 123		45
461	4	55		B	WRITE2	4		1772	B K64		46
462	4	56		WTM	OUTAPE	5		1776	U \$06 M		46
463	4	57	EOJOB	BW	PUNCH4,PNH4SW	8		1781	V X93 P26 1		46
464	4	58		B	ENDJOB	4		1789	B I55		46
465	4	59	*								
466	4	60	*		PUNCH NEW SOURCE DECK						
467	4	61	*								
468	4	62	PUNCH4	CS	PUNCH&80	4		1793	/ 180		46
469	4	63		MCW	@113@,LGTC&6	7		1797	M R74 058		46
470	4	64		RT	4,PUNCH&1	8		1804	M \$U4 101 R		47
471	4	65		B	CHKLGT	4		1812	B O37		47
472	4	66		BER	TPERR	5		1816	B M33 L		47
473	4	67		BCE	DOLTO,PUNCH&75,L	8		1821	B 254 175 L		47
474	4	68		BCE	PUNCH4,PUNCH&75,S	8		1829	B X93 175 S		47
475	4	69		BCE	PUNCH4,PUNCH&75,C	8		1837	B X93 175 C		48
476	4	70		BCE	PUNCH4,PUNCH&75,Z	8		1845	B X93 175 Z		48
477	4	71		BCE	PUNCH4,PUNCH&75,Y	8		1853	B X93 175 Y		48
478	4	72	BUMP	A	&1,SEQCT-1	7		1861	A R75 097		48
479	4	73		MCW	SEQCT,PUNCH&5	7		1868	M 098 105		48
480	4	74		BCE	DOPCH,PUNCH&6,*	8		1875	B 213 106 *		49
481	4	75		MCW	BLANK4#4,PUNCH&15	7		1883	M R79 115		49
482	4	76		C	PUNCH&18,@JOB@	7		1890	C 118 P14		49
483	4	77		BU	DOPCH	5		1897	B 213 /		49
484	4	78		MCW	BLANK4,PUNCH&11	7		1902	M R79 111		49
485	4	79		MCW	BLANK4-2	4		1909	M R77		49
486	4	80	DOPCH	MCW	BLANK4-1,PUNCH&75	7		1913	M R78 175		50
487	4	81		P		1		1920	4		50
488	4	82		SS	4	2		1921	K 4		50
489	4	83		C	PUNCH&18,@END@	7		1923	C 118 R82		50
490	4	84		BU	PUNCH4	5		1930	B X93 /		50
491	4	85		BCE	PUNCH4,PUNCH&6,*	8		1935	B X93 106 *		50
492	4	86		CS	PUNCH&80	4		1943	/ 180		50
493	4	87		F		1		1947	4		51
494	4	88		SS	8	2		1948	K 8		51
495	4	89		B	ENDJOB	4		1950	B I55		51
496	4	90	DOLTO	MCW	@LTOrg@,PUNCH&20	7		1954	M R87 120		51
497	4	91		B	BUMP	4		1961	B Y61		51

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
498	4	92		DCW	@ @			1 1965			51
499	4	93	ENDF1	DCW	@}@			1 1966		GMARK	51
500	4	94		XFR	LIBRN				B 000		52

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
501	4	95		JOB	1401 AUTOCODER-PASS 8-LOAD TAPE-LEFT MAIN -VERSION 3						
502	4	96		ORG	2000				2000		
503	4	97	OUTOPN	DCW	@ @	1		2000			55
504	4	98	SSOP	DCW	@B@	1		2001			55
505	4	99		RTW	1,1	8		2002	L %U1 001 R		55
506	5	00		NOP	XXXX	4		2010	N 000		55
507	5	01		BER	TPERR	5		2014	B M33 L		55
508	5	02		CW	ENDF1,ENDF2	7		2019	) Z66 I98		55
509	5	03		B	INITLZ	4		2026	B 340		55
510	5	04		*							
511	5	05		*	WRITE CLEAR STORAGE AND BOOTSTRAP						
512	5	06		*							
513	5	07	WRITE1	SBR	WT1XT&3	4		2030	H 154		56
514	5	08		WTW	OUTAPE,OUTPUT	8		2034	L %U6 101 W		56
515	5	09		NOP	XXXX	4		2042	N 000		56
516	5	10		BER	TPERR	5		2046	B M33 L		56
517	5	11	WT1XT	B	XXXX	4		2051	B 000		56
518	5	12		*							
519	5	13		*	GO BACK TO PASS E FOR EXTRA OUTPUT						
520	5	14		*							
521	5	15	ENDJOB	RTW	1,333	8		2055	L %U1 333 R		56
522	5	16		NOP	XXXX	4		2063	N 000		56
523	5	17		BER	TPERR	5		2067	B M33 L		57
524	5	18		B	MESSAG	4		2072	B 333		57
525	5	19		*							
526	5	20		*	RETRIEVE INPUT RECORD						
527	5	21		*							
528	5	22	GET	SBR	GETXT&3	4		2076	H J58		57
529	5	23		C	BLKCT,KBLKNG	7		2080	C P04 P01		57
530	5	24		BU	NXTREC	5		2087	B J20 /		57
531	5	25		S	HOLDA	4		2092	S P05		57
532	5	26		MCW	&INPUT&13, LGTCK&6	7		2096	M R90 058		57
533	5	27		RT	INTAPE,INPUT	8		2103	M %U5 ?28 R		58
534	5	28		B	CHLGT	4		2111	B O37		58
535	5	29		BER	TPERR	5		2115	B M33 L		58
536	5	30		NXTREC	A &80, BLKCT	7		2120	A R92 P04		58
537	5	31		MCW	BLKCT, XR3	7		2127	M P04 099		58
538	5	32		MCW	INPUT-1&X3, IMAGE&80	7		2134	M ?B7 080		58
539	5	33		CHAIN	8					MACRO	
540				MCW		1		2141	M	GEN	58
541				MCW		1		2142	M	GEN	59
542				MCW		1		2143	M	GEN	59
543				MCW		1		2144	M	GEN	59
544				MCW		1		2145	M	GEN	59
545				MCW		1		2146	M	GEN	59
546				MCW		1		2147	M	GEN	59
547				MCW		1		2148	M	GEN	59
548	5	34		S	XR3&1	4		2149	S 100		60
549	5	35		S		1		2153	S		60
550	5	36		S		1		2154	S		60

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
551	5	37	GETXT	B	XXXX	4		2155	B 000		60
552	5	38	*								
553	5	39	*		DO NEXT RECORD						
554	5	40	*								
555	5	41	BYPASS	B	GET	4		2159	B 176		60
556	5	42		B	ANALYZ	4		2163	B /20		60
557	5	43	*		SET ADDRESSES IN OUTPUT						
558	5	44	*								
559	5	45	*								
560	5	46	SETLOC	SBR	LOCXT&3	4		2167	H K10		60
561	5	47		B	CNVRT	4		2171	B K11		61
562	5	48	MCW		CNVWK, PUNCH&26	7		2175	M ?04 126		61
563	5	49	ZA		&34, CNVADD	7		2182	? R94 ?01		61
564	5	50	A		COINT, CNVADD	7		2189	A 007 ?01		61
565	5	51		B	CNVRT	4		2196	B K11		61
566	5	52	MCW		CNVWK, PUNCH&23	7		2200	M ?04 123		61
567	5	53	LOCXT	B	XXXX	4		2207	B 000		62
568	5	54	*								
569	5	55	*		CONVERT 5 TO 3 DIGIT ADDRESS						
570	5	56	*								
571	5	57	CNVRT	SBR	CNVXT&3	4		2211	H K63		62
572	5	58	BAV		*&1	5		2215	B K20 Z		62
573	5	59	ADDAGN	A	&96, CNVADD-3	7		2220	A R96 R98		62
574	5	60	BAV		ADDAGN	5		2227	B K20 Z		62
575	5	61	MZ		CNVADD-4, CNVADD#5	7		2232	Y R97 ?01		62
576	5	62	MN		CNVADD-3, *&4	7		2239	D R98 K49		62
577	5	63	MZ		ZONE, CNVADD-2	7		2246	Y 339 R99		63
578	5	64	MCW		CNVADD, CNVWK#3	7		2253	M ?01 ?04		63
579	5	65	CNVXT	B	XXXX	4		2260	B 000		63
580	5	66	*								
581	5	67	*		WRITE OUTPUT RECORDS						
582	5	68	*								
583	5	69	WRITE2	SBR	WT2XT&3	4		2264	H L30		63
584	5	70	BCE		DOGM, PUNCH&35, }	8		2268	B L31 135 }	GMARK	63
585	5	71	WTW		OUTAPE, OUTPUT&19	8		2276	L &U6 120 W		63
586	5	72	NOP		XXXX	4		2284	N 000		64
587	5	73	BER		TPERR	5		2288	B M33 L		64
588	5	74	NOP			1		2293	N		64
589	5	75	CLEAR	MCW	BLANK1, PUNCH&75	7		2294	M Q69 175		64
590	5	76	MCW		PUNCH&75	4		2301	M 175		64
591	5	77	MCW		BLANK1, HOLDDT	7		2305	M Q69 R48		64
592	5	78	MCW		HOLDDT	4		2312	M R48		64
593	5	79	MCW		@N000@, PUNCH&30	7		2316	M Q51 130		65
594	5	80	MCW		@L @	4		2323	M ?11		65
595	5	81	WT2XT	B	XXXX	4		2327	B 000		65
596	5	82	DOGM	CS	299	4		2331	/ 299		65
597	5	83	LCA		PUNCH&80, 280	7		2335	L 180 280		65
598	5	84	LCA			1		2342	L		65
599	5	85	MCW		PUNCH&66, 274	7		2343	M 166 274		65
600	5	86	LCA		@ @	4		2350	L Q43		66

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
601	5	87	LCA		@B007@	4		2354	L P35		66
602	5	88	LCA		@)043043@	4		2358	L ?18		66
603	5	89	LCA		PUNCH&26	4		2362	L 126		66
604	5	90	LCA		@, 043@	4		2366	L ?22		66
605	5	91	SW		225, 235	7		2370	, 225 235		66
606	5	92	A		&8, 227	7		2377	A ?23 227		66
607	5	93	CW		225	4		2384	) 225		67
608	5	94	BCE		WTGM, PUNCH&27, N	8		2388	B M03 127 N		67
609	5	95	MCW		PUNCH&30, 237	7		2396	M 130 237		67
610	5	96	WTGM	CW	235	4		2403	) 235		67
611	5	97	WTW		OUTAPE, 220	8		2407	L &U6 220 W		67
612	5	98	NOP		XXXX	4		2415	N 000		67
613	5	99	BER		TPERR	5		2419	B M33 L		68
614	6	00	NOP			1		2424	N		68
615	6	01	CW		280	4		2425	) 280		68
616	6	02	B		CLEAR	4		2429	B K94		68
617	6	03	*								
618	6	04	*		TAPE REDUNDANCY ROUTINE						
619	6	05	*								
620	6	06	TPERR	SBR	XR2	4		2433	H 094		68
621	6	07	SBR		REDXT&3	4		2437	H N05		68
622	6	08	MZ		&9, XR2	7		2441	Y ?24 094		68
623	6	09	MCW		4000-10&X2, TPINST&7	7		2448	M IR0 M96		69
624	6	10	MN		TPINST&3, BSP1&3	7		2455	D M92 M72		69
625	6	11	MCW		TPINST&7, INST2&7	7		2462	M M96 005		69
626	6	12	BSP1	BSP	INITAP	5		2469	U &U0 B		69
627	6	13	BCE		WRTRED, TPINST&7, W	8		2474	B N78 M96 W		69
628	6	14	MCW		&9, READCT#1	7		2482	M ?24 ?25		70
629	6	15	TPINST	RT	INITAP, XXXX	8		2489	M &U0 000 R		70
630	6	16	BER		RDRERR	5		2497	B N06 L		70
631	6	17	REDXT	B	XXXX	4		2502	B 000		70
632	6	18	RDRERR	MN	TPINST&3, BSP2&3	7		2506	D M92 N16		70
633	6	19	BSP2	BSP	INITAP	5		2513	U &U0 B		70
634	6	20	S		&1, READCT	7		2518	S R75 ?25		71
635	6	21	BWZ		TPINST, READCT, B	8		2525	V M89 ?25 B		71
636	6	22	MN		TPINST&3, TPHALT&6	7		2533	D M92 N46		71
637	6	23	TPHALT	H	XXXX, 890	7		2540	. 000 890		71
638	6	24	MCW		TPINST&7, *&8	7		2547	M M96 N61		71
639	6	25	RT		INITAP, XXXX	8		2554	M &U0 000 R		72
640	6	26	BSS		BSP1, E	5		2562	B M69 E		72
641	6	27	H		XXXX, 811	7		2567	. 000 811		72
642	6	28	B		REDXT	4		2574	B N02		72
643	6	29	WRTRED	SKP	1	5		2578	U &U1 E		72
644	6	30	BCE		SUBCTR, WRTCTR-1, 5	8		2583	B O15 ?26 5		72
645	6	31	A		&1, WRTCTR#2	7		2591	A R75 ?27		73
646	6	32	INST2	WT	INITAP, XXXX	8		2598	M &U0 000 W		73
647	6	33	BER		BSP1	5		2606	B M69 L		73
648	6	34	B		REDXT	4		2611	B N02		73
649	6	35	SUBCTR	S	WRTCTR	4		2615	S ?27		73
650	6	36	MN		TPINST&3, *&7	7		2619	D M92 O32		73

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
651	6	37		H	XXXX,860	7		2626	. 000 860		74
652	6	38		B	INST2	4		2633	B N98		74
653	6	39	*								
654	6	40	*		CHECK FOR SHORT RECORDS						
655	6	41	*								
656	6	42	CHKLGT	SBR	XR2	4		2637	H 094		74
657	6	43		SBR	LGTXT&3	4		2641	H 075		74
658	6	44		MZ	&9, XR2	7		2645	Y ?24 094		74
659	6	45	LGTCK	BCE	4000-12&X2,XXXX,}	8		2652	B IQ8 000 }	GMARK	74
660	6	46		CHAIN	12					MACRO	
661				BCE		1		2660	B	GEN	74
662				BCE		1		2661	B	GEN	75
663				BCE		1		2662	B	GEN	75
664				BCE		1		2663	B	GEN	75
665				BCE		1		2664	B	GEN	75
666				BCE		1		2665	B	GEN	75
667				BCE		1		2666	B	GEN	75
668				BCE		1		2667	B	GEN	75
669				BCE		1		2668	B	GEN	76
670				BCE		1		2669	B	GEN	76
671				BCE		1		2670	B	GEN	76
672				BCE		1		2671	B	GEN	76
673	6	47	LGTXT	B	XXXX	4		2672	B 000		76
674	6	48	BER1	DCW	@B001L@	5		2680			76
675	6	49	RDREC	DCW	@L&U1020R@	8		2688			76
676	6	50	BSPTUL	DCW	@U&U1B@	5		2693			77
677	6	51	SEQCT	DCW	@0100 @	5		2698			77
678	6	52	KBLKNG	DCW	080	3		2701			77
679	6	53	HOLDA	DCW	&0000	4		2705			77
680	6	54	BLKCT	EQU	HOLDA-1			2704			
681	6	55	GRPMRK	DC	@}@	1		2706		GMARK	77
682	6	56		LTORG	*				2707		
				DCW	@2@	1		2707		LIT	77
				DCW	@7@	1		2708		LIT	77
				DCW	@013@	3		2711		LIT	77
				DCW	@JOB@	3		2714		LIT	78
			IDENT	DCW	#04	4		2718		AREA	78
			JOBSW	DCW	#01	1		2719		AREA	78
				DCW	@CTL@	3		2722		LIT	78
				DCW	@33@	2		2724		LIT	78
			LTAPSW	DCW	#01	1		2725		AREA	78
			PNH4SW	DCW	#01	1		2726		AREA	78
				DCW	@0@	1		2727		LIT	79
				DCW	@1@	1		2728		LIT	79
				DCW	@4@	1		2729		LIT	79
				DCW	@ @	2		2731		LIT	79
				DCW	@B007@	4		2735		LIT	79
				DCW	@021@	4		2739		LIT	79
				DCW	@B047L@	5		2744		LIT	79
				DCW	@L&U1001R@	8		2752		LIT	80

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
				DCW	@.@	1		2753		LIT	80
				DCW	@3@	1		2754		LIT	80
				DCW	@6@	1		2755		LIT	80
				DCW	@I0?@	3		2758		LIT	80
				DCW	@099@	3		2761		LIT	80
				DCW	@B053@	4		2765		LIT	80
				DCW	@M074099@	7		2772		LIT	81
				DCW	@)099@	4		2776		LIT	81
				DCW	@B001/@	5		2781		LIT	81
				DCW	@C004041@	7		2788		LIT	81
				DCW	@#044004@	7		2795		LIT	81
				DCW	@/I9I@	4		2799		LIT	81
				DCW	@I0@	2		2801		LIT	81
				DCW	@M080099@	7		2808		LIT	82
				DCW	@B001@	4		2812		LIT	82
				DCW	@B0320020@	8		2820		LIT	82
				DCW	@)002@	4		2824		LIT	82
				DCW	@A075003@	7		2831		LIT	82
				DCW	@.002@	4		2835		LIT	82
				DCW	@/I99@	4		2839		LIT	82
				DCW	@Z@	1		2840		LIT	83
				DCW	@T@	1		2841		LIT	83
				DCW	@I@	1		2842		LIT	83
				DCW	@ @	1		2843		LIT	83
				DCW	@.020@	4		2847		LIT	83
				DCW	@N000@	4		2851		LIT	83
				DCW	@L @	7		2858		LIT	83
			SAVEZN	DCW	#01	1		2859		AREA	84
				DCW	&3	1		2860		LIT	84
				DCW	@400@	3		2863		LIT	84
				DCW	@00@	2		2865		LIT	84
				DCW	&HOLDDT-51	3		2868	Q97	ADCON	84
			BLANK1	DCW	#01	1		2869		AREA	84
				DCW	@32@	2		2871		LIT	84
			HOLDCT	DCW	#02	2		2873		AREA	85
			TEMP	DCW	#20	20		2893		AREA	85
				DCW	@)@	1		2894		LIT	85
				DCW	@31@	2		2896		LIT	85
			HOLDDT	DCW	#52	52		2948		AREA	87
				DCW	@,@	1		2949		LIT	87
				DCW	@B@	1		2950		LIT	87
				DCW	@N000000@	7		2957		LIT	87
				DCW	@L @	7		2964		LIT	87
				DCW	@/ 080@	7		2971		LIT	88
				DCW	@113@	3		2974		LIT	88
				DCW	&1	1		2975		LIT	88
			BLANK4	DCW	#04	4		2979		AREA	88
				DCW	@END@	3		2982		LIT	88
				DCW	@LTORG@	5		2987		LIT	88
				DCW	&INPUT&13	3		2990	?41	ADCON	88





SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
740	7	14		CC	K			2 0514	F K		101
741	7	15		W				1 0516	2		101
742	7	16	FINAL	CC	1			2 0517	F 1		101
743	7	17		H	XXXX,889			7 0519	. 000 889		101
744	7	18		B	FINAL&2			4 0526	B 519		102
745	7	19	GOTOE	CW	ENDF2,ENDF3			7 0530	) 198 998		102
746	7	20		CW	INPUT&80			4 0537	) A08		102
747	7	21		CS	PUNCH&99			4 0541	/ 199		102
748	7	22		BSP	1			5 0545	U %U1 B		102
749	7	23		BSP	1			5 0550	U %U1 B		102
750	7	24		BSP	1			5 0555	U %U1 B		102
751	7	25		BSP	1			5 0560	U %U1 B		103
752	7	26		BSP	1			5 0565	U %U1 B		103
753	7	27		BSP	1			5 0570	U %U1 B		103
754	7	28		BSP	1			5 0575	U %U1 B		103
755	7	29		BSP	1			5 0580	U %U1 B		103
756	7	30		RTW	1,PASSE			8 0585	L %U1 200 R		103
757	7	31		BER	TPERR2			5 0593	B 602 L		103
758	7	32		B	PASSE&1			4 0598	B 201		104
759	7	33	TPERR2	MCW	&9_READCH1			7 0602	M 995 996		104
760	7	34		BSP	1			5 0609	U %U1 B		104
761	7	35	RETRY	RTW	1,PASSE			8 0614	L %U1 200 R		104
762	7	36		BER	AGAIN			5 0622	B 631 L		104
763	7	37		B	PASSE&1			4 0627	B 201		104
764	7	38	AGAIN	BSP	1			5 0631	U %U1 B		104
765	7	39		S	&1_READC			7 0636	S 997 996		105
766	7	40		BWZ	RETRY,READC,B			8 0643	V 614 996 B		105
767	7	41		H	XXXX,891			7 0651	. 000 891		105
768	7	42		RTW	1,PASSE			8 0658	L %U1 200 R		105
769	7	43		BSS	TPERR2,E			5 0666	B 602 E		105
770	7	44		H	XXXX,812			7 0671	. 000 812		106
771	7	45		B	PASSE&1			4 0678	B 201		106
772	7	46		LTORG	*				0682		106
				DCW	@END OF ASSEMBLY@			15 0696		LIT	106
				DCW	@IF EXTRA OUTPUT DESIRED, SET SENSE@			34 0730		LIT	107
				DCW	@SWITCH F ON, AND@			16 0746		LIT	108
				DCW	@B ON FOR CONDENSED CARDS@			24 0770		LIT	109
				DCW	@C ON FOR LOADABLE TAPE 6@			24 0794		LIT	110
				DCW	@D ON FOR LISTING TAPE 3@			24 0818		LIT	111
				DCW	@E ON TO SUPPRESS LISTING@			24 0842		LIT	112
				DCW	@G ON FOR NEW SOURCE DECK@			24 0866		LIT	113
				DCW	@AND PRESS START@			15 0881		LIT	113
				DCW	@IF NO EXTRA OUTPUT DESIRED, PRESS START@			39 0920		LIT	114
				DCW	@END OF JOB@			10 0930		LIT	115
				DCW	@INPUT FOR RE-ASSEMBLY ON TAPE UNIT 4@			36 0966		LIT	116
				DCW	@LOADABLE TAPE ON TAPE UNIT 6@			28 0994		LIT	117
				DCW	&9			1 0995		LIT	117
			READC	DCW	#01			1 0996		AREA	117
				DCW	&1			1 0997		LIT	117
773	7	47	ENDF3	DCW	@]@			1 0998		GMARK	117

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
774	7	48	PASSE	EQU	1900			1900			
775	7	49		EX	LIBRN				B 000		118
776	7	50		END	LIBRN				/ 000 080		

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
ADD1	558	ADD2	569	ADD4	580	ADDAGN	2220	AGAIN	631	ALPHA	1323	ANALYZ	1120
AOP	70	BER1	2680	BLANK1	2869	BLANK4	2979	BLKCT	2704	BOP	73	BSPL	2469
BSP2	2513	BSPTU1	2693	BTSTRP	842	BUMP	1861	BYPASS	2159	CHKLGT	2637	CKCTL	444
CLEAR	2294	CNVADD	3001	CNVRT	2211	CNVWK	3004	CNVXT	2260	COMPAT	1732	CONST	1265
COUNT	7	DA	1585	DARTN	1647	DAXT	1678	DMOD	74	DOGM	2331	DOJOB	1211
DOLTO	1954	DOPCH	1913	DSA	1559	END	1758	ENDF1	1966	ENDF2	3998	ENDF3	998
ENDJOB	2055	EOJOB	1781	EXEND	1682	FIELD	1601	FINAL	517	GET	2076	GETXT	2155
GOTOE	530	GRPMRK	2706	HEADER	1624	HOLDA	2705	HOLDCT	2873	HOLDDT	2948	IDENT	2718
IMAGE	0	INITAP	%U0	INITLZ	340	INPUT	3028	INST2	2598	INSTR	1222	INSTXT	1253
INTAPE	%U5	IS12K	736	IS4K	747	ISJOB	1747	JOBWS	2719	KBLKNG	2701	LABADD	61
LARGE	1382	LGTC	2652	LGTX	2672	LIBRN	0	LOCXT	2207	LRGDC	1494	LRGXT	1422
LTAPOP	591	LTAPSW	2725	MESSAG	333	NKTREC	2120	OUTAPE	%U6	OUTOPN	2000	OUTPUT	101
PASSE	1900	PCHCON	1344	PNH4OP	520	PNH4SW	2726	FRINT	200	PRODC	1447	PUNCH	100
PUNCH4	1793	RDRRC	2688	RDRERR	2506	READ4	393	READC	996	READCT	3025	REDXT	2502
RETRY	614	SAVEZN	2859	SENSW	528	SEQCT	2698	SETIMP	1084	SETLOC	2167	SSOP	2001
SSOUT	550	START	1017	SUBCTR	2615	SUPADD	66	TEMP	2893	TPERR	2433	TPERR2	602
TPHALT	2540	TPINST	2489	TSLSW	1049	TSTOP	480	TSTSS	475	TSTSSC	540	TSTSSG	545
TYPE	75	WRITE1	2030	WRITE2	2264	WRCTTR	3027	WRTRED	2578	WT1XT	2051	WT2XT	2327
WTGM	2403	XR1	89	XR2	94	XR3	99	XTRA	1534	XXXX	0	ZONE	339